US Army Corps
of Engineers
Rock Island District

Defense Environmental Restoration Program
for
Formerly Used Defense Sites
Ordnance and Explosive

Archives Search Report

CONCLUSIONS AND RECOMMENDATIONS

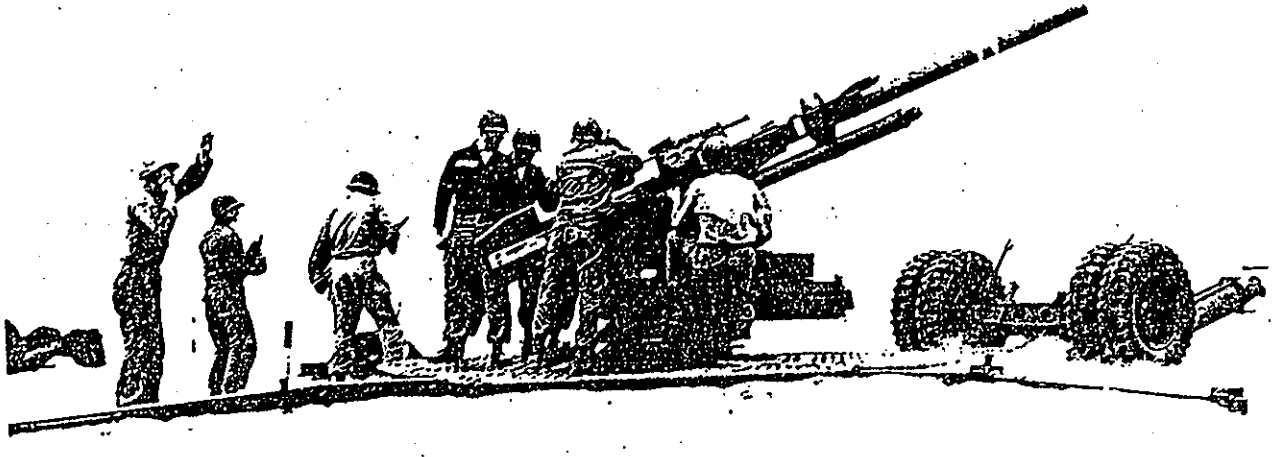
for the former

ANTI-AIRCRAFT BATTERY TACTICAL FACILITY

Brighton, Massachussetts

Project Number D01MA052201

October 1995



CONCLUSIONS AND RECOMMENDATIONS

ORDNANCE AND EXPLOSIVE
ARCHIVES SEARCH REPORT
FOR
FORMER ANTI-AIRCRAFT BATTERY TACTICAL FACILITY
BRIGHTON, MASSACHUSETTS
PROJECT NUMBER D05MA052201

October 1995

Prepared For

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PROJECT FACT SHEET
FORMERLY USED DEFENSE SITES
12 June 1995

1. **SITE NAME:** Anti-Aircraft Battery Tactical Facility

SITE NUMBER: D05MA052200

LOCATION:

CITY	Brighton
COUNTY	Suffolk
STATE	Massachusetts

PROJECT NUMBER: D05MA052201

CATEGORY: OE

2. **POC'S:**

GEO DIST POC:	TECHNICAL MANAGER:
NAME:	NAME:
OFFICE:	OFFICE: CEHND-PM-OT
PHONE:	PHONE: 205-955-1229
GEO DIVISION POC:	HEADQUARTERS POC:
NAME: Ann Laster	NAME:
OFFICE: CENED-RE-AM	OFFICE:
PHONE: 617-647-8584	PHONE:

3. **SITE DESCRIPTION:**

The former Anti-Aircraft Battery Tactical Facility consisted of approximately 2.5 acres of land that was located in the city of Brighton, county of Suffolk, Massachusetts. The former site has been converted into an athletic field and currently utilized for that purpose.

4. **SITE HISTORY:**

(1) In 1951 the United States acquired approximately 2.5 acres of land by lease in Brighton, Massachusetts for use as an anti-aircraft battery tactical site. The site was established to provide defense against air attack on the Watertown Arsenal and the Boston Defense Area.

(2) The site was formerly activated by the Army in 1952 with four 90mm gun mount built up on it. The site was occupied by Battery B, 16th Anti-Aircraft Battalion. There

was a housing area, a magazine, and gun mounts built on the site.

(3) In February 1955 two National Guard Anti-Aircraft Batteries took over operations at the site. The site was occupied by the National Guard Battery A, 704th AAA Battalion and Battery D, 772nd AAA Battery. The active Army battalion being was moved to Nike-Ajax sites elsewhere.

(4) The site was deactivated in June 1958 with the last battery being move to the Medford Massachusetts site. The equipment that was at the site was transferred to the Medford and the Milton Massachusetts sites.

5. **PROJECT DESCRIPTION:**

Anti-Aircraft Battery Tactical Facility

Size, Acres:	2.5
Former Usage:	90mm Anti-Aircraft Facility
Current Usage:	Athletic Field
Ordnance Presence:	Uncontaminated
Type:	None

6. **STRATEGY:**

Anti-Aircraft Battery Tactical facility: **NOFA**

7. **ISSUES AND CONCERNS: (Public Exposure Concerns)**

NONE

8. **Current Status**

PA: 100%

ASR: Complete

INTERIM REMOVAL RESPONSE: None Proposed

NOFA: Recommended on Former Site

RD: None Scheduled

RA: None Scheduled

9. **SCHEDULE SUMMARY:**

Phase	Orig. Start	Sch. Start	Actual Start	Orig. Comp.	Sch. Comp.	Actual Comp.

10. **FUNDING/BUDGET SUMMARY:**

Year	Phase	EXEC FOA	IN House Required	Contract Required	Funds Obligated

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ACKNOWLEDGMENTS

The following persons provided support, as indicated.

Function	Name	Title	Organization	Telephone
Assessment Team	Jodi L. Bausman	Ammunition Spec. (8 Yr.)	CENCR-ED-DO	(309)794-6157
	George Ofslager	QASAS (15 Yrs)	CENCR-ED-DO	(309)794-6024
	Jim Ashnewitz	EOD (26 Yrs.)	CENCR-ED-DO	(309)794-6035
Engineering Support	Daniel J. Holmes	Professional Engineer	CENCR-ED-DO	(309)794-6080
Technical Library Search	Tom Meekma	QASAS	SMCAC-ESL	(815)273-8739
Geographic Division	Ann Laster	Real Estate Specialist	CENED-RE-AM	(617)647-8584
Industrial Hygiene	Robert Platt	Industrial Hygienist	MCXP-RIA	(309)782-0806
CADD Support	Kevin Marker	Student Technician	CENCR-ED-DO	(309)794-6026

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CONCLUSIONS AND RECOMMENDATIONS

The following Conclusions and Recommendations are provided by the Archive Search Report team. These recommendations may not be the actions taken to remediate this site.

TABLE OF CONTENTS

ORDNANCE AND EXPLOSIVE ARCHIVES SEARCH REPORT FOR FORMER ANTI-AIRCRAFT BATTERY TACTICAL FACILITY BRIGHTON, MASSACHUSETTS PROJECT NUMBER D05MA052201

1. INTRODUCTION.

a. **Subject and Purpose**

(1) This report presents the findings of an historical records search and site inspection for ordnance and explosives (OE) located at the Former Sand Hills Bombing Range, Chesterfield, SC (see Plate 1 for general location map). The investigation was performed under the authority of the Defense Environmental Restoration Program for Formerly Used Defense Sites (DERP FUDS).

(2) The investigation focused on 12,324.77 acres of land that were used as Sand Hills Bombing & Gunnery Range. The Sand Hills site was used for bombing and ground gunnery practice by the Army Air Corps from 1942 until 1947.

(3) The purpose of this investigation was to characterize the site for potential OE contamination, to include conventional ammunition and chemical warfare material (CWM). The investigation was conducted by experienced ordnance experts through thorough evaluation of historical records, interviews, and on-site visual inspection results.

b. **Scope**

(1) This report presents the site history, site description, real estate ownership information, and confirmed ordnance presence (prior to and after site closure), based on available records, interviews, site inspections, and analyses. The analyses provide a complete evaluation of all information to assess current day potential ordnance contamination, where actual ordnance presence has not been confirmed.

(2) For the purpose of this report, OE contamination consists of live ammunition, live ammunition components, CWM or explosives which have been lost, abandoned, discarded, buried, fired, or thrown from demolition pits or burning pads. These items were either manufactured, purchased, stored, used, and/or disposed of by the War Department/Department of Defense. Such ammunition/components are no longer under accountable record control of any DOD organization or activity.

(3) **Expended** small arms ammunition (.50 cal or smaller) is **not** considered OE contamination. OE further includes "explosive soil" which refers to any mixture in soil, sands, clays, etc., such that the mixture itself is explosive. Generally, 10 percent or more by weight of secondary explosives in a soil mixture is considered explosive soil.

2. CONCLUSIONS.

a. **Summary of Conclusions**

Table 2-1 provides a summary of conclusions.

TABLE 2-1
SUMMARY OF CONCLUSIONS

AREA	FORMER USAGE	PRESENT USAGE	PROBABLE END USAGE	SIZE ACRES	FUDS ELIGIBILITY: CONFIRMED FUDS	FUDS ELIGIBILITY: POTENTIAL FUDS	CONFIRMED ORDNANCE	POTENTIAL ORDNANCE	UNCON-TAMINATED	RAC
	Anti-Aircraft Battery Tactical Facility	Athletic Field	Same	2.5	Yes	---	---	---	Yes	5
			TOTAL	2.5						

b. **Historical Site Summary**

(1) The United States in 1951 acquired approximately 2.5 acres of land by lease in Brighton, Massachusetts for use as an anti-aircraft battery tactical site. The site was established to provide defense against air attack on the Watertown Arsenal and the Boston Defense Area.

(2) The site was formerly activated by the Army in 1952 with four 90mm gun mount built up on it. The site was occupied by Battery B, 16th Anti-Aircraft Battalion. There was a housing area, a magazine, and gun mounts built on the site.

(3) In February 1955 two National Guard Anti-Aircraft Batteries took over operations at the site. The site was occupied by the National Guard Battery A, 704th AAA Battalion and Battery D, 772nd AAA Battery. The active Army battalion was moved to Nike-Ajax sites elsewhere.

(4) The site was deactivated in June 1958 with the last battery being move to the Medford Massachusetts site. The equipment that was at the site was transferred to the Medford and the Milton Massachusetts sites.

c. **Site Eligibility**

(1) The United States of America originally leased 2.5 acres of land for use as an anti-aircraft battery from 1951 until 1958. The leases were terminated in 1958. In September 1993, approximately 2.5 acres was declared eligible under the Defense

Environmental Restoration Program for Formerly Used Defense Sites.

(2) There were no additional acreage's found during this investigation that were owned or utilized by the Army or National Guard to support this facility.

d. **Visual Site Inspection**

(1) The visual inspection was performed on the former anti-aircraft facility 13 through 15 July 1995. The inspection as performed after an interview with Colonel Thomas J. Bittelari AUS (retired), who was stationed at the former site. Mr. Bittelari also accompanied the inspection team to the site to verify the locations of the buildings on the former site.

(2) Mr. Bittelari showed the inspection team the location of the former site. He walked the former AAA site with inspection team explaining where the 90mm guns were positioned, location of the magazine, location of the housing area and a good general layout of the facility.

(3) As shown on plate 2 the former AAA site has had some construction and land leveling to build the athletic field. After closure of the former site all the buildings and gun mount were removed prior to the construction of the field house and athletic field.

e. **Confirmed Ordnance Area**

(1) Confirmation of ordnance presence was based on direct witness of ordnance items and verifiable documented evidence. The risk assessment from table 2-1 was based on all hazards found during the historical documents review and the site investigation conducted 13 through 15 July 1995.

(2) During this site investigation, no OE contamination was visually verified in any of the areas as depicted on plate 3. Interviews stated that to their knowledge, there has been no OE found or removed from this site since the closure of the former Anti-Aircraft Battery Tactical Facility.

f. **Potential Ordnance Area**

(1) Potential ordnance contamination is based on inference from historical records, indirect witness or present day site features.

(2) During this site investigation, no OE contamination was visually verified in any of the area as depicted on plate 3. Interviews stated that to their knowledge, there has been no OE found or removed from this site since the closure of the former Anti-Aircraft Battery Tactical Facility.

g. **Uncontaminated Ordnance Area**

(1) Uncontaminated ordnance sites are based on lack of confirmed or potential ordnance contamination. The 2.5 acres that made up the former AAA Tactical Facility should be considered **uncontaminated** based on a lack of confirmed/potential OE findings (see plate 3). The Risk Assessment and Table 2-1 are based on this premise.

(2) During this site inspection there was OE visually verified by the inspection team. Contacts with a person station at the former site and several EOD units as well as the Boston Bomb Squad, all the above have no knowledge of any OE ever being found at this former site.

(3) With the construction that has gone on at this site since closure without any OE ever being found or retrieved, this former site should be considered **Uncontaminated.**

h. **Other Environmental Hazards**

There have been no additional hazards recognized during this investigation that would warrant any other projects.

3. RECOMMENDATIONS

a. **Summary of Recommendations**

Table 3-1 provides a summary of recommended actions.

TABLE 3-1
SUMMARY OF RECOMMENDATIONS

			PA ACTIONS		OE ACTIONS			HTRW ACTIONS	BD/DR ACTION
AREA	FORMER USAGE	SIZE ACRES	PREPARE INPR	NO FURTHER ACTION	PERFORM ESI	IMPLEMENT INTERIM RESPONSE	PERFORM EE/CA	PERFORM SI	PERFORM SI
	Anti-Aircraft Battery	2.5	---	Yes	---	---	---	---	---
	TOTAL	2.5							

b. **Preliminary Assessment Actions**

There were no additional acreage's found during this investigation utilized by the Department of Defense to support the mission performed at the former Anti-Aircraft Battery Tactical Facility. No preliminary actions are required at this site.

c. **Ordnance and Explosive Waste Actions**

Due to construction and verification by the inspection team that there has been no OE found at the former site since

closure, it is recommended that **No Further Action** for OE be taken at this site.

d. **Other Environmental Remediation Actions**

(1) HTRW

There were no other HTRW project recognized during this investigation.

(2) BD/DR

There were no other BD/DR project recognized during this investigation.

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RISK ASSESSMENT

18 Apr 94
Previous editions obsolete

RISK ASSESSMENT PROCEDURES FOR
ORDNANCE AND EXPLOSIVE WASTE (OEW) SITES

Site Name	AAA Battery Tac. Fac.	Rater's Name	Jodi Bausman
Site Location	Brighton, MA	Phone No.	309-794-6157
DERP Project #	D01MA052201	Organization	CENCR-ED-DO
Date Completed	7/31/95	RAC Score	5

OEW RISK ASSESSMENT:

This risk assessment procedure was developed in accordance with MIL-STD 882C and AR 385-10. The RAC score will be used by CEHND to prioritize the remedial action at Formerly Used Defense Sites. The OEW risk assessment should be based upon best available information resulting from records searches, reports of Explosive Ordnance Disposal (EOD) detachment actions, and field observations, interviews, and measurements. This information is used to assess the risk involved based upon the potential OEW hazards identified at the site. The risk assessment is composed of two factors, **hazard severity and hazard probability**. Personnel involved in visits to potential OEW sites should view the CEHND video tape entitled "A Life Threatening Encounter: OEW."

Part 1. Hazard Severity. Hazard severity categories are defined to provide a qualitative measure of the worst credible mishap resulting from personnel exposure to various types and quantities of unexploded ordnance items.

TYPES OF ORDNANCE
(Circle all values that apply)

A. Conventional Ordnance and Ammunition	VALUE
Medium/Large Caliber (20 mm and larger)	10
Bombs, Explosive	10
Grenades, Hand and Rifle, Explosive	10
Landmines, Explosive	10
Rockets, Guided Missiles, Explosive	10
Detonators, Blasting Caps, Fuzes, Boosters, Bursters	6
Bombs, Practice (w/spotting charges)	6
Grenades, Practice (w/spotting charges)	4
Landmines, Practice (w/spotting charges)	4
Small Arms (.22 cal - .50 cal)	1
Conventional Ordnance and Ammunition (Select the largest single value)	0

What evidence do you have regarding conventional OEW? No OEW found since closure.

B. Pyrotechnics. (For munitions not described above)

	VALUE
Munitions (Container) Containing White Phosphorous or other Pyrophoric Material (i.e., Spontaneously Flammable)	10
Munition Containing a Flame or Incendiary Material (i.e. Napalm, Triethlaluminum Metal Incendiaries)	6
Flares, Signals, Simulators, Screening Smoke (other than WP)	4
Pyrotechnics (Select the largest single value)	0

What evidence do you have regarding pyrotechnics? _____

C. Bulk High Explosives (Not an integral part of convention ordnance; uncontainerized.)

	VALUE
Primary or Initiating Explosive (Lead Styphnate, Lead Azide, Nitroglycerin, Mercury Azide, Mercury Fulminate, Tetracene, etc.)	10
Demolition Charges	10
Secondary Explosives (PETN, Composition A, B, C, Tetryl, TNT, RDX, HMX, HBX, Black Powder, etc).	8
Military Dynamite	6
Less Sensitive Explosives (Ammonium Nitrate, Explosive D, etc).	3
High Explosives (Select the largest single value)	0

What evidence do you have regarding bulk explosives? _____

D. Bulk Propellants (Not an integral part of rockets, guided missiles, or other conventional ordnance; uncontainerized)

	VALUE
Solid or Liquid Propellants	6
Propellants	0

What evidence do you have regarding propellants? _____

E. Chemical Warfare Material and Radiological Weapons

	VALUE
Toxic Chemical Agents (Choking, Nerve, Blood, Blister)	25
War Gas Identification Sets	20
Radiological	15
Riot Control and Miscellaneous (Vomiting, Tear)	5

Chemical and Radiological (Select the largest single value) 0

What evidence do you have of chemical/radiological OEW? _____

==========

TOTAL HAZARD SEVERITY VALUE _____
(Sum of Largest Values for A through E--Maximum of 61).
Apply this value to Table 1 to determine Hazard Severity Category.

TABLE 1

HAZARD SEVERITY*

Description	Category	Hazard Severity Value
CATASTROPHIC	I	21 and greater
CRITICAL	II	11 to 20
MARGINAL	III	5 to 10
NEGLIGIBLE	IV	1 to 4
**NONE		0

* **Apply Hazard Severity Category to Table 3.**

** If Hazard Severity Value is 0, you do not need to complete Part II. Proceed to Part III and use a RAC score of 5 to determine your appropriate action.

Part II. Hazard Probability. The probability that a hazard has been or will be created due to the presence and other related factors of unexploded ordnance or explosive materials on a formerly used DOD site.

AREA, EXTENT, ACCESSIBILITY OF CONTAMINATION
(Circle all values that apply)

A. Locations of OEW Hazards

	VALUE
On the surface	5
Within Tanks, Pipes, Vessels or Other confined locations	4
Inside walls, ceilings, or other parts of Buildings or Structures	3
Subsurface	2
Location (Select the single largest value)	_____

What evidence do you have regarding location of OEW? _____

_____

B. Distance to nearest inhabited locations or structures likely to be at risk from OEW hazard (roads, parks, playgrounds, and buildings).

	VALUE
Less than 1250 feet	5
1250 feet to 0.5 miles	4
0.5 miles to 1.0 miles	3
1.0 miles to 2.0 miles	2
Over 2 miles	1
Distance (Select the single largest value)	_____

What are the nearest inhabited structures? _____

_____

C. Number of buildings within a 2 mile radius measured from the OEW hazard area, not the installation boundary.

	VALUE
26 and over	5
16 to 25	4
11 to 15	3
6 to 10	2
1 to 5	1
0	0

Number of Buildings (Select the single largest value) _____

Narrative Airport buildings and industrial warehouses

D. Types of Buildings (within a 2 mile radius)

	VALUE
Educational, Child Care, Residential, Hospitals, Hotels, Commercial, Shopping Centers	5
Industrial, Warehouse, etc.	4
Agricultural, Forestry, etc.	3
Detention, Correctional	2
No Buildings	0

Types of Buildings (Select the largest single value) _____

Describe types of buildings in the area. _____

E. Accessibility to site refers to access by humans to ordnance and explosive wastes. Use the following guidance:

BARRIER	VALUE
No barrier or security system	5
Barrier is incomplete (e.g., in disrepair or does not completely surround the site). Barrier is intended to deny egress from the site, as for a barbed wire fence for grazing.	4
A barrier, (of any kind of fence in good repair) but no separate means to control entry. Barrier is intended to deny access to the site.	3
Security guard, but no barrier	2
Isolated Site	1
a 24-hour surveillance system (e.g., television monitoring or surveillance by guards or facility personnel) which continuously monitors and controls entry onto the facility, or An artificial or natural barrier (e.g., a fence combined with a cliff), which completely surrounds the facility; and a means to control entry, at all times, through the gates or other entrances to the facility (e.g., an attendant, television monitor, locked entrance, or controlled roadway access to the facility).	0

Accessibility (Select the single largest value) _____

Describe the site accessibility. _____

F. Site Dynamics - This deals with site conditions that are subject to change in the future, but may be stable at the present. Example would be excessive soil erosion by beaches or streams, increasing land development that could reduce distance from the site to inhabited areas or otherwise increase accessibility.

	VALUE
Expected	5
None Anticipated	0

Site Dynamics (Select largest value) 0

Describe the site dynamics. _____

Total Hazard Probability Value
(Sum of Largest Values for A through F--Maximum of 30) _____

Apply this value to Hazard Probability Table 2 to determine Hazard Probability Level.

TABLE 2

HAZARD PROBABILITY*

Description	Level	Hazard Probability Value
FREQUENT	A	27 or greater
PROBABLE	B	21 to 26
OCCASIONAL	C	15 to 20
REMOTE	D	8 to 14
IMPROBABLE	E	less than 8

*** Apply Hazard Probability Level to Table 3.**

Part III. Risk Assessment. The risk assessment value for this site is determined using the following Table 3. Enter with the results of the hazard probability and hazard severity values.

TABLE 3

Probability Level		FREQUENT A	PROBABLE B	OCCASIONAL C	REMOTE D	IMPROBABLE E
Severity Category:						
CATASTROPHIC	I	1	1	2	3	4
CRITICAL	II	1	2	3	4	5
MARGINAL	III	2	3	4	4	5
NEGLIGIBLE	IV	3	4	4	5	5

RISK ASSESSMENT CODE (RAC)

RAC 1 Expedite INPR, recommending further action by CEHND - Immediately call CEHND-ED-SY--commercial 205-955-4968 or DSN 645-4968.

RAC 2 High priority on completion of INPR - Recommend further action by CEHND.

RAC 3 Complete INPR - Recommend further action by CEHND.

RAC 4 Complete INPR - Recommend further action by CEHND.

RAC 5 Usually indicates that no further action (NOFA) is necessary. Submit NOFA and RAC to CEHND.

Part IV. Narrative. Summarize the documented evidence that support this risk assessment. If no documented evidence was available, explain all the assumptions that you made.

Since closure of the there has been an athletic field constructed upon the former site without finding any OEW. An interview with a person that was stationed at the former site told of how stringent the accountability of the ordnance. There was no information found by the inspection team that there was any OEW disposed of at the former site, therefore the site should be considered **uncontaminated** at this time.

ORDNANCE AND EXPLOSIVE
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FOR
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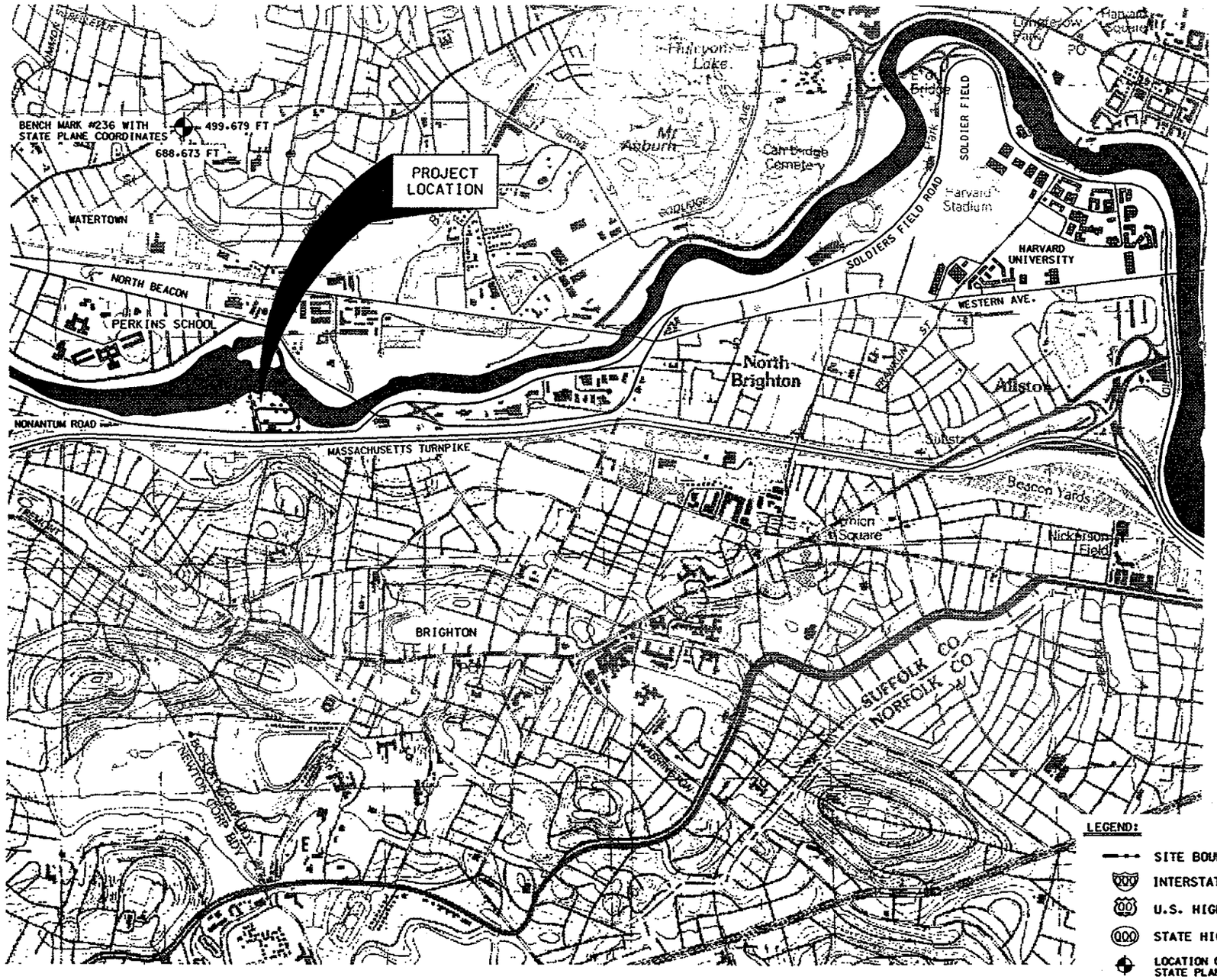
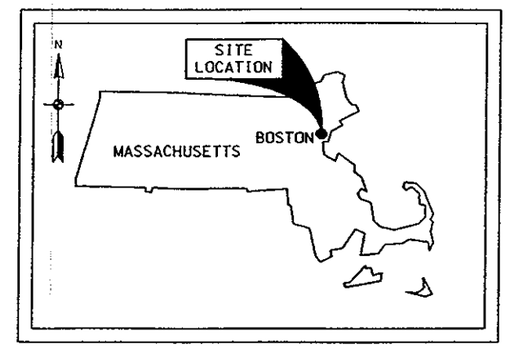
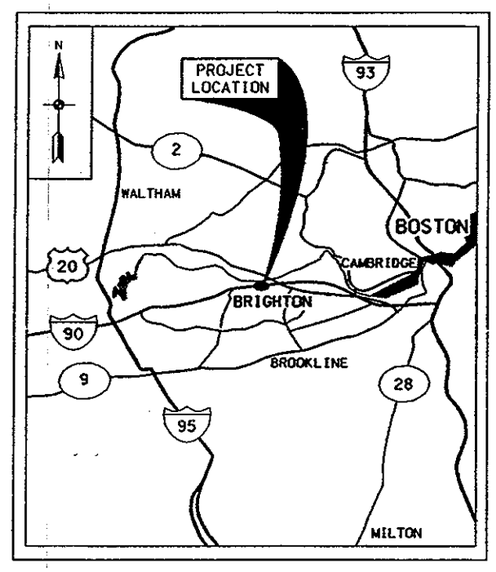
BRIGHTON, MASSACHUSETTS
PROJECT NUMBER D05MA052201

PLATES





MASSACHUSETTS STATE MAP



PROJECT LOCATION MAP
BOSTON METRO. AREA

LEGEND:

- SITE BOUNDARY
- INTERSTATE HIGHWAY
- U.S. HIGHWAY
- STATE HIGHWAY
- LOCATION OF BENCH MARK WITH STATE PLANE COORDINATES

800 400 0 800FT 1600FT

Revisions			
Symbol	Description	Date	Approved

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
ROCK ISLAND, ILLINOIS

Designed by: J.L.B.	ANTI-AIRCRAFT BATTERY TACTICAL FACILITY BRIGHTON, MASSACHUSETTS
Drawn by: T.L.G.	
Checked by: M.J.C.	SITE MAP
Reviewed by: D.J.H.	Scales: / Dates: / Drawing Codes: / Sheet reference numbers: / Solicitation Number: / Sheet of
Approved by:	

PLATE 1

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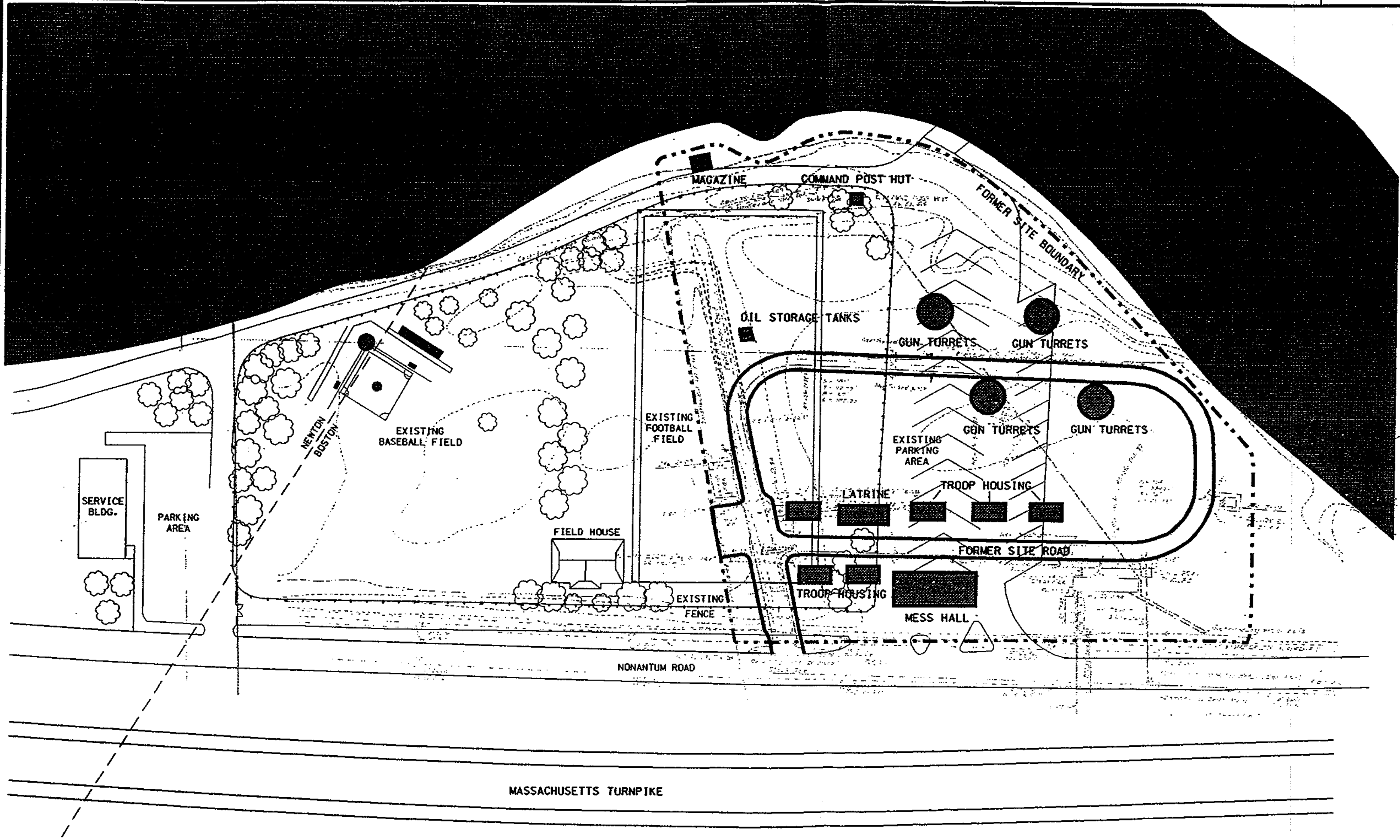


LEGEND:

- SITE BOUNDARY
- STATE/LOCAL ROADS
- EXISTING FENCE

NOTES:

PLATE 2 IDENTIFIES THE FORMER FACILITY WITH EXISTING STRUCTURES

Revisions			
Symbol	Description	Date	Approved

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
ROCK ISLAND, ILLINOIS

Designed by: J.L.B.
Drawn by: T.L.G.
Checked by: M.J.C.
Reviewed by: D.J.H.
Approved by:

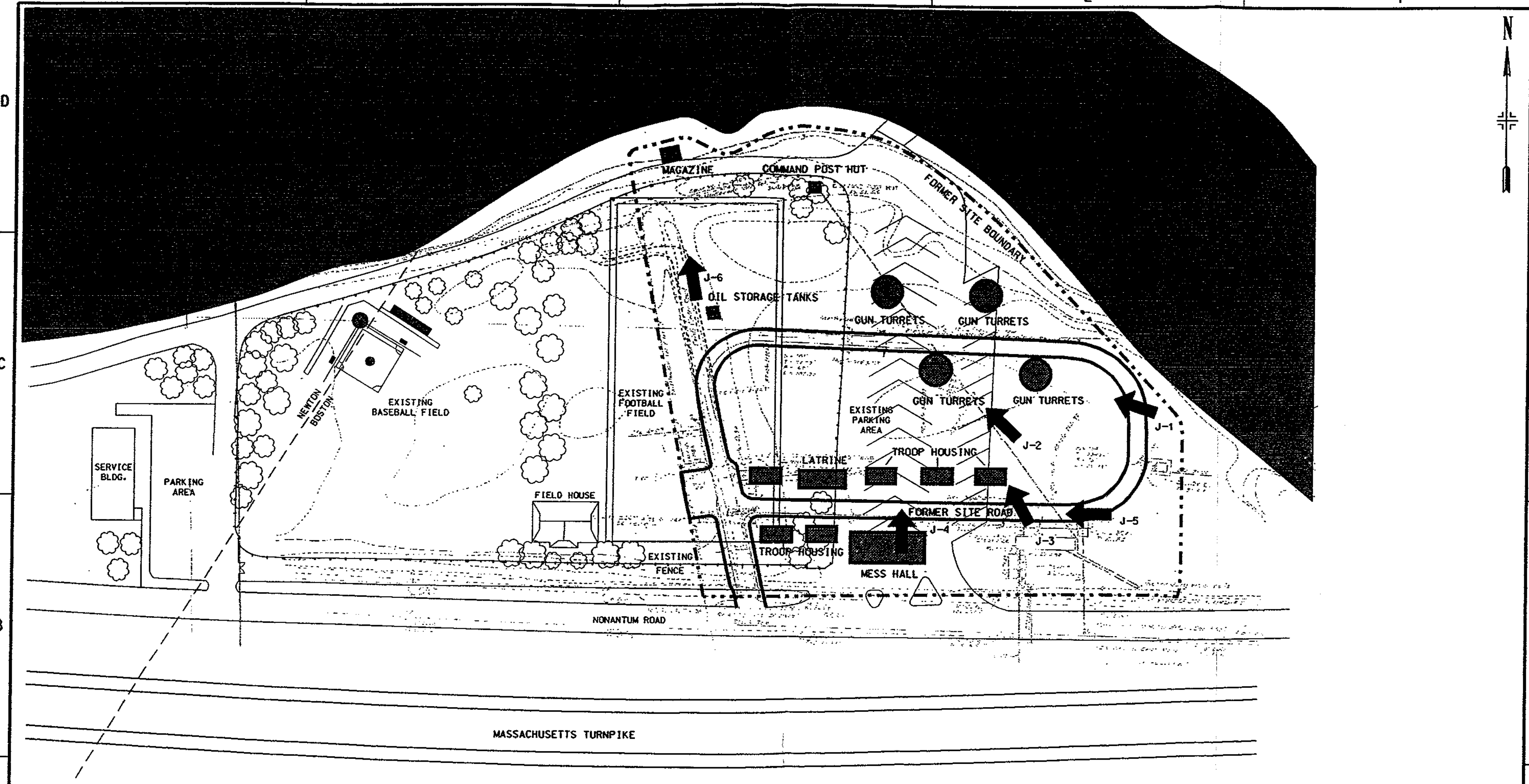
US Army Corps of Engineers

ANTI-AIRCRAFT BATTERY
TACTICAL FACILITY
BRIGHTON, MASSACHUSETTS

FACILITY LAYOUT
CIRCA 1952

Scale:
Date:
Drawing Code:
Sheet reference number:
Solicitation Number:
Sheet of

PLATE 2



LEGEND:

- SITE BOUNDARY
- STATE/LOCAL ROADS
- PHOTO LOCATION/DIRECTION
- EXISTING FENCE

NOTES:

LAND PARCEL INSIDE AND ADJACENT TO FORMER SITE BOUNDARY OWNED BY THE COMMONWEALTH OF MASSACHUSETTS

PLATE 3 IDENTIFIES THE FORMER FACILITY WITH EXISTING STRUCTURES

OE SUMMARY OF AREA

AREA	FORMER USAGE	OE PRESENCE	ACREAGE
BRIGHTON A.A. BASE	ANTI-AIRCRAFT ARTILLERY BATTERY	UNCONTAMINATED	*2.5

*ACREAGE IS APPROXIMATE

60 30 0 60FT 120FT

Revisions			
Symbol	Description	Date	Approved

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
ROCK ISLAND, ILLINOIS

Designed by: J.L.B.
Drawn by: T.L.G.
Checked by: M.J.C.
Reviewed by: D.J.H.
Approved by:

US Army Corps of Engineers

ANTI-AIRCRAFT BATTERY
TACTICAL FACILITY
BRIGHTON, MASSACHUSETTS

PROJECT SUMMARYS
1995

Scale:
Date:
Drawing Code:
Sheet reference numbers
Solicitation Number:
Sheet of

PLATE 3